



9"

ESTIMATED QUANTITIES

MARK

SIZE

QUAN

TYPE

D

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LENGTH

TOTAL LENGTH

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#5 BARS, #4 BARS,

TOTAL LENGTH

TOTAL

LENGTH

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2'-6"

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2'-9" 5'-9"

5'-9" 3-3" w

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3'-0"

FT.	(61.3 FT./CORNER)	STEEL	
FT.	(6.0 FT./LIN. FT.)	STEEL #5	
FT.	STEEL #4 (31.0 FT./LIN. FT.)	STEEL #4	
CU. YDS.	CONCRETE (0.33 CU.YDS./LIN.FT.)	CONCRETE	

- REQUIREMENTS.
- *CONCRETE SHALL MEET PA 313 OR 561 SPECIFICATION RE *MINIMUM SPLICE LENGTH FOR ALL #4 BARS IS 16".

 *MINIMUM SPLICE LENGTH FOR ALL #5 BARS IS 17".

 *STEEL QUANTITY DOES NOT INCLUDE SPLICE LENGTHS.

 *SUBSTITUTION OF GRADE 60 BARS IS PERMITTED.

TOTAL LENGTH OF WALL П

N.-

A 4-FOOT MINIMUM OF BACKFILL IS REQUIRED.

DIMENSIONS ARE TO THE REINFORCING BAR SURFACE.

П CONSTRUCTION JOINT

LIQUID-TIGHT JOINT YES N 0

1. SPLICE MARK (D) AND MARK (F) BARS.
2. PLACE MARK (E) BAR @ 6" SPACING FROM MARK (D) BAR.

NOTES:

LIQUID-TIGHT JOINT OPTIONS

NON-METALIC WATERSTOP HYDROPHILIC WATERSTOP (PVC)

CONSTRUCTION JOINT OPTIONS

IF SLAB AND WALL ARE POURED SEPARATELY, THE SLAB SURFACE MUST BE THOROUGHLY CLEANED WITH WATER AND A WIRE BRUSH. THE SURFACE OF THE JOINT SHALL BE KEPT MOIST FOR AT LEAST 1 HOUR PRIOR TO PLACEMENT OF NEW CONCRETE.

 $\dot{\sim}$ POURED AT THE SAME TIME ELIMINATING THE NEED FOR A THE SL CONSTRUCTION JOINT. AB AND WALL MAY BE



6-FOOT WALL CORNER SLAB CORNER DETAILS RESTRAINING SLAB OPTIONS DETAILS SEE PA-027A SEE PA-023 SEE PA-024

GENERAL DESIGN NOTES:

- *DRAINAGE SHALL BE AWAY FROM THE WALL.

 *THE MINIMUM TOP WIDTH OF THE BACKFILL AGAINST THE SHALL BE EQUAL TO OR GREATER THAN THE BACKFILL. MAXIMUM FOOTING CONTACT PRESSURE IS 1080 psf/ft. HE WALL HEIGHT.

DESIGN STRENGTHS: WORKING STRESS DESIGN

CONCRETE $f_c = 4,000 \text{ psi}$ STEEL $f_s = 20,000 \text{ psi}$ (GRADE 40)

DESIGN LOADING: 313 STANDARD - LATERAL SECTION IV OF THE FIELD OFFICE TECHNICAL GUIDE,

WALL

*MANURE LOAD INSIDE = 65 psf/ft.
*SOIL BACKFILL LOAD OUTSIDE = 60 psf/ft.
*NO HORIZONTAL SURCHARGE ADDED.
*SOIL BACKFILL DENSITY = 110 pcf.
*WATER TABLE MUST BE BELOW THE FOOTING ELEVATION

RESTRAINT REQUIREMENTS:

THICK SLAB, SAFETY FACTOR AGAINST SLIDING \leq

NO SLAB	7 FEET	4 FEET
NO SLAB	37 FEET	
FULL INSIDE LOAD	NO INSIDE LOAD	(OUTSIDE LOAD)
SLAB LENGTH	SLAB LENGTH	BACKFILL HEIGHT

THIS STANDARDIZED DESIGN MUST BE ADAPTED TO THE SPECIFIC SITE. IT WAS DEVELOPED IN COOPERATION WITH THE WISCONSIN DEPARTMENT OF AGRICULTURE, TRADE AND CONSUMER PROTECTION. THE DESIGN FOLDER IS FILED AT THE NRCS STATE OFFICE, 8030 EXCELSIOR DRIVE, MADISON, WI. 53717—2906

(ADAPTED FROM WI-561, APRIL 2005)

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COUNTY, PENNSYLVANIA

6' HIGH, 8" L-WALL (BACKFILL 4-6 FT. W/O SURCHARGE)

Date <u>06/23/0</u>5 TJA